

1. PERFORMANCE

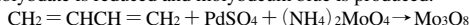
- 1) Measuring range : 30-600 ppm
Number of pump strokes 1 (100mℓ)
- 2) Sampling time : 1.5 minutes/1 pump stroke
- 3) Detectable limit : 5 ppm
- 4) Shelf life : 3 years
- 5) Operating temperature : 0 ~ 40 °C
- 6) Temperature compensation : Necessary (See "TEMPERATURE CORRECTION TABLE")
- 7) Reading : Direct reading from the scale calibrated by 1 pump stroke
- 8) Colour change : Pale yellow → White

2. RELATIVE STANDARD DEVIATION

RSD-low : 10 % RSD-mid. : 5 % RSD-high : 5 %

3. CHEMICAL REACTION

Molybdate is reduced and molybdeum blue is produced.



4. CALIBRATION OF THE TUBE

GAS CHROMATOGRAPHY

5. INTERFERENCE AND CROSS SENSITIVITY

| Substance | Interference | Coexistence |
|---|--|----------------------------|
| Carbon monoxide | Whole layer is discoloured to Green or Blue. | |
| Hydrogen sulphide | Black stain is produced. | |
| Saturated Hydrocarbons (more than C ₃) | Whole layer is discoloured to Blue. | |
| Ethylene | Blue stain is produced. | |
| Propylene | ∕ | |
| Butylene | ∕ | |
| Benzene | Yellowish orange stain is produced. | |
| Ammonia | Similar stain is produced. | Higher readings are given. |
| Hydrogen cyanide | ∕ | ∕ |

TEMPERATURE CORRECTION TABLE

| Scale Readings (ppm) | True Concentration (ppm) | | | | |
|----------------------|--------------------------|---------------|---------------|---------------|----------------|
| | 0 °C (32 °F) | 10 °C (50 °F) | 20 °C (68 °F) | 30 °C (86 °F) | 40 °C (104 °F) |
| 600 | 910 | 740 | 600 | 550 | 510 |
| 550 | 820 | 670 | 550 | 510 | 470 |
| 500 | 740 | 600 | 500 | 460 | 430 |
| 450 | 650 | 530 | 450 | 420 | 390 |
| 400 | 570 | 470 | 400 | 370 | 350 |
| 350 | 490 | 400 | 350 | 330 | 310 |
| 300 | 410 | 340 | 300 | 280 | 270 |
| 250 | 330 | 280 | 250 | 240 | 220 |
| 200 | 250 | 220 | 200 | 190 | 180 |
| 150 | 180 | 160 | 150 | 140 | 140 |
| 100 | 110 | 110 | 100 | 100 | 90 |